	Application No.	Applicant(s)	
Notice of Allowability	40/775 000	1	
	10/775,328 Examiner	KATO ET AL. Art Unit	
	LAGIIIIIGI	Artonic	
	Steven J. Fulk	2891	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in t or other appropriate commun GHTS. This application is su	his application. If not included lication will be mailed in due co	urse. THIS
1. This communication is responsive to the amendment filed 5/7/07.			
2. The allowed claim(s) is/are <u>1-11 and 16-27</u> .			
3. ☑ Acknowledgment is made of a claim for foreign priority una) ☑ All b) ☐ Some* c) ☐ None of the:		(f).	
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No.			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXANes reason(s) why the oath or d	MINER'S AMENDMENT or NOT declaration is deficient.	TICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		rmal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sun Paper No./M	nmary (PTO-413), lail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's A	lail Date mendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's S	tatement of Reasons for Allowa	ince
·	9.		
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## **DETAILED ACTION**

## Response to Arguments

- 1. Applicant's amendment filed April 27, 2007, which amended claims 1-11 and 22, canceled claims 12-15, and added claims 23-27, has been entered. Applicant's supplemental amendment filed May 7, 2007, which amends claims 4 and 8, has also been entered. Claims 1-11 and 16-27 are currently pending.
- 2. Applicant's arguments with respect to the rejection of independent claims 1-10 have been fully considered and are persuasive. The rejection of claims 1-11 and 16-22 has been withdrawn.

## Allowable Subject Matter

- 3. Claims 1-11 and 16-27 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: a search of the prior art failed to disclose or reasonably suggest a semiconductor device, or electronic equipment comprising the semiconductor device, comprising: a first semiconductor element including at least one thin film transistor and a light emitting element electrically connected to the first semiconductor element; a second semiconductor element including at least one thin film transistor and a light receiving element electrically connected to the second semiconductor element; wherein the first semiconductor element and the second semiconductor element are stacked and a resin film is formed between the first semiconductor element and the second semiconductor element; wherein the light emitting element comprises a first electrode, a second electrode, and an electro-luminescent layer formed between the first electrode and the second electrode, and wherein the first electrode, the

electro-luminescent layer, and the second electrode are overlapped each other, as recited by claims 1-11.

Ovshinsky et al. '471 discloses a semiconductor device (figs. 6A & 6B; col. 18, line 58 – col. 19, line 66) comprising a stacked thin film light emitting element (layer 158 of device 232) and a light receiving element (layer 42 of device 234), with an adhesive film (leveling film, 220) and an insulating film (236) formed between semiconductor circuits, but the reference does not teach the light emitting element and the light receiving element to each be electrically connected to a thin film transistor, nor does the reference teach the stacked elements to have a resin formed between them.

Kohashi '056, Thillays '877, Miyoshi et al. '821, Stein '695, Yasumoto et al. '083, Lebby et al. '245, Vu et al. '953, Hayashi et al. '699, Spaeth et al. '559, and Haas et al. '214 disclose stacked optoelectronic coupling devices, but the references do not teach the light emitting element and the light receiving element to each be electrically connected to a thin film transistor, nor does the reference teach stacked elements having a resin formed between them.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Fulk whose telephone number is (571)

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272-8323. The examiner can normally be reached on Monday through Friday,

9:30am to 6:00pm.

is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned

6. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to

the automated information system, call 800-786-9199 (IN USA OR CANADA) or

571-272-1000.

SSF

Steven J. Fulk Patent Examiner Art Unit 2891

June 22, 2007

B. WILLIAM BAUMEISTER
SUPERVISORY PATENT EXAMINER